INTERNATIONALSEARCHREPORT

International application No.

PCT/JP2004/018955 CLASSIFICATIONOFSUBJECTMATTER Int.Cl? C09D175/04,C09D7/12 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C09D175/04,C09D7/12 Int.Cl7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2005, Japanese Registered Utility Model Gazette 1994-2005, Japanese Gazette Containing the Utility Model 1996-2005 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category* Relevant to claim No. X JP 59-98125 A (CELANESE CORP.) 1984.06.06, 1-7,9,11,13whole document, especially claims 17 & US 4423201 A & EP 107969 A2 A 8,10,12 X JP 06-80738 A(NIPPON SEISHI K.K.) 1994.03.22, 1-6,10,13-17 claims, [0019] (No Family) A 7-9,11,12 JP 10-508632 A(HERCULES INC.) 1998.08.25, X 1-6,10,13-17 claims & WO 96/14357 A1 & EP 789725 A1 A 7-9,11,12 X JP 10-251556 A(SANYO CHEMICAL INDUSTRIES 1-6,10,13-17 A LTD.) 1998.09.22, claims, [0011] (No Family) 7-9,11,12 X JP 2001-507391 A (SHELL INTERNATIONAL RESEARCH 1-6,13-17 MAATSCHAPPIJ BV)2001.06.05, claims & EP 7-12 951494 A1 & US 6160040 A Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to document defining the general state of the art which is not considered to be of particular relevance understand the principle or theory underlying the invention earlier application or patent but published on or after the international filing date document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination being obvious to a person skilled in the art document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 08 3, 2005 08.02.2005 Name and mailing address of the ISA/JP Authorized officer 4V 9051 Japan Patent Office KIYOKO TAMURA

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INTERNATIONALSEARCHREPORT

International application No. PCT/JP2004/018955

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C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	·	
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
X A	JP 2001-515118 A (EASTMAN CHEMICAL COMPANY) 2001.09.18, claims & WO 99/09104 A1 & EP 1003819 A1 & US 2003/105197 A1		1-6,10,13-17 7-9,11,12
X A	JP 2002-521545 A(Rhodia CHIMIE)2002.07.16, claims & WO 2000/6641 Al & FR 2781806 Al & EP 1021483 Al & US 6391952 Bl		1-6,10,13-17 7-9,11,12
x	DE 10313317 Al(TOYOTA JIDOSHA K.K.)2003.11.20, whole document & JP 2004-2706 A & US 2003/220444 Al		1-17
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INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/018955

The surfactants used in claims 1-7, 9, 11 and 13-17 render the definition of the subject matters of said claims unclear for the following reason:

The surfactants expressed with only the functional groups or small portions of them. Therefore, the person skilled in the art would not envisage the whole surfactants as chemical compounds, even with consideration of common general knowledge. The surfactants such as chemical compounds should be specified with chemical formulaes.

The surfactants used in claims 1-7, 9, 11 and 13-17 would comprise a variety of chemical compounds, however only limited examples are disclosed in the specification and the skilled person cannot make from the description of the specification even with consideration of common general knowledge, it is considered that those claims and description of specification do not meet the requirements of PCT Articles 5 and 6.

This report was made on the basis of the disclosed examples in the specification. The subject-matter of claims 8, 10 and 12 are searched completely.